



Sequence listing.txt
SEQUENCE LISTING

<110> IBM Corporation
<120> Unsupervised Building and Exploitation of Composite Descriptors
<130> YOR920000435US1
<140> US 09/712,638
<141> 2000-11-14
<160> 59
<170> PatentIn version 3.2
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Lys Pro Leu Ile Ala Ala Gln Tyr Ser Gly Phe Pro Ile Lys Val Ala
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Ser Ser Ala Pro Glu Phe Gln Phe Gly Val Thr Asn Lys Thr Pro Glu
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Phe Leu Lys Lys Phe Pro Leu Gly Lys Val Pro Ala
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Met Ala Xaa Xaa Thr Leu Tyr Val Ser Pro Xaa Xaa Xaa Xaa Xaa Xaa
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Sequence listing.txt

Xaa Xaa Xaa Xaa Xaa Xaa His Leu Asp Asp Phe Arg Ser Leu Leu Ala
20 25 30

Leu Val Ala Ala Glu Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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His Tyr Val Gly Asn Asp Glu Leu Arg Gly Thr Thr Arg Leu His Gln
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Ala Gln Val Ile Gln Trp Val Ser Phe Ser Asp Ser His Ile Val Pro
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Pro Ala Ser Ala Trp Val Phe Pro Thr Leu Gly Ile
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Sequence listing.txt

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Ser Gln Val Trp Gln Trp Leu Ser Phe Ala Asp Asn Glu Leu Thr Pro
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Val Ser Cys Ala Val Val Phe Pro Leu Met Gly Met
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Met Gln Tyr Asn Lys Gln Ala Thr Glu Gln Ala Lys Glu Gly Ile Lys
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Thr Val Leu Gly Val Leu Asp Ser His Leu Gln Thr Arg Thr Phe Leu
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Val Gly Glu Arg Ile Thr Leu Ala Asp Ile Thr Val Thr Cys Ser Leu
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Leu Trp Leu Tyr Lys Gln Val Leu Glu Pro Ser Phe
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Thr Gly Leu Asp Lys Lys Ile Gln Gln Asn Ser Arg Val Glu Leu Met
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Arg Val Leu Lys Val Leu Asp Gln Ala Leu Glu Pro Arg Thr Phe Leu
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Val Gly Glu Ser Ile Thr Leu Ala Asp Met Ala Val Ala Met Ala Val
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Sequence listing.txt

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Arg Gln Pro Phe Gly Asn Val Thr Arg Trp Phe Val Thr Cys Val Asn
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Gln Pro Glu Phe Arg Ala Val Leu Gly Glu Val Lys Leu Cys Asp Lys
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Met Ala Gln Phe Asp Ala Lys Lys Phe Ala Glu Met Gln Pro Lys Lys
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Glu Thr Pro Lys Lys Glu Lys Pro Ala Lys Glu Pro
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Arg Asn Val Leu Met Asn Val Thr Arg Trp Phe Thr Thr Cys Ile Asn
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Gln Pro Glu Phe Leu Lys Val Leu Gly Lys Ile Ser Leu Cys Glu Lys
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Met Val Pro Val Thr Ala Lys Thr Ser Thr Glu Glu Ala Ala Ala Val
35 40 45

His Pro Asp Ala Ala Ala Leu Asn Gly Pro Pro
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Sequence listing.txt

Pro Lys Ser Lys Asp Pro Tyr Ala His Leu Pro Xaa Lys Ser Ser Phe
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Ile Met Asp Glu Phe Lys Arg Lys Tyr Ser Asn Glu
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Glu Lys Phe Gln Gln Lys Lys Glu Met Glu Ala Lys Lys Lys Met Gln
 20 25 30

Pro Val Ala Glu Lys Lys Ala Lys Pro Glu Lys Arg Glu Leu Gly Val
 35 40 45

Ile Thr Tyr Asp Ile Pro Thr Pro Ser Gly Glu Lys
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Lys Glu Gly Trp Ser Ile Trp Tyr Ala Glu Tyr Xaa Lys Phe Pro Glu
 20 25 30

Glu Leu Thr Gln Ala Phe Met Ser Cys Asn Leu Ile Thr Gly Met Phe
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Gln Arg Xaa Leu Asp Lys Leu Arg Lys Thr Gly Phe
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Glu Ala Ala Trp Tyr Pro Trp Trp Glu Lys Gln Gly Phe Phe Lys Pro
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Glu Phe Gly Arg Lys Ser Ile Gly Glu Gln Asn Pro Arg Gly Ile Phe
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Met Met Cys Ile Pro Pro Pro Asn Val Thr Gly Ser
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Ala Ser Val Ile Leu Phe Gly Thr Asn Asn Asn Ser Ser Ile Ser Gly
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Val Trp Val Xaa Phe Arg Gly Gln Asp Leu Ala Phe Thr Leu Ser Glu
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Asp Xaa Xaa Xaa Xaa Xaa Trp Gln Ile Asp Tyr Glu Ser Tyr Asn Trp
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Sequence listing.txt

Arg Lys Leu Asp Ser Gly Ser Glu Glu Cys Xaa Xaa
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Leu His Leu Gly His Ala Leu Thr Asn Ala Ile Gln Asp Thr Leu Thr
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Arg Trp His Arg Met Arg Gly Glu Thr Thr Leu Trp Asn Pro Gly Cys
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Arg Glu Lys Gly Thr Ser Arg His Asp Leu Gly Arg
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Xaa Xaa Xaa Xaa Xaa Phe Lys Asn Val Gly Lys Pro Phe Asn Gln Gly
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Xaa Lys Ile Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Sequence listing.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Arg Ile Tyr His Gln Leu Lys Lys Leu Gly Ser Ser Leu Asp Trp Asp
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Arg Ala Cys Phe Thr Met Asp Pro Lys Leu Ser Tyr Ala Val Gln Glu
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Ala Phe Ile Arg Met His Asp Glu Gly Val Ile Tyr
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Ile Tyr Ile Phe Ala Lys Lys Asn Asn Ile Pro Phe Gln Met His Thr
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Val Glu Leu Arg Lys Gly Glu His Leu Ser Asp Ala Phe Ala Arg Val
35 40 45

Asn Pro Met Lys Lys Val Pro Ala Met Met Xaa Asp
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Ile Tyr Ile Phe Ala Lys Lys Asn Asn Ile Pro Phe Gln Met His Thr
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Val Glu Leu Arg Lys Gly Glu His Leu Ser Asp Ala Phe Ala Gln Val
 35 40 45

Asn Pro Met Lys Lys Val Pro Ala Met Lys Xaa Asp
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Val Ala Gly Lys Leu Tyr Thr Tyr Pro Glu Asn Phe Arg Ala Phe Lys
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Ala Leu Ile Ala Ala Gln Tyr Ser Gly Ala Lys Leu Glu Ile Ala Lys
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Ser Phe Val Phe Gly Glu Thr Asn Lys Ser Asp Ala Phe Leu Lys Ser
 35 40 45

Phe Pro Leu Gly Lys Val Pro Ala Phe Glu Ser Ala
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His Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Lys Val Pro Asp His
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Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val
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His Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Lys Val Pro Asp His
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Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val
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<400> 22

Asp Gly His Cys Ile Ala Glu Ser Asn Ala Ile Ala Tyr Tyr Val Ala
1 5 10 15

Asn Glu Thr Leu Arg Gly Ser Ser Asp Leu Glu Lys Ala Gln Ile Ile
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Sequence listing.txt

20

25

30

Gln Trp Met Thr Phe Ala Asp Thr Glu Ile Leu Pro Ala Ser Cys Thr
35 40 45

Trp Val Phe Pro Val Leu Gly Ile Met Gln Phe Asn
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Asp Glu Tyr Leu Ala Trp Gln His Thr Gly Leu Arg Arg Ser Cys Leu
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Arg Ala Leu Trp His Lys Val Met Phe Pro Val Phe Leu Gly Glu Gln
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Leu Gln Val Leu Glu Asp Lys Phe Leu Gln Asp Lys
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20 25 30

Ile Arg Pro Glu Met Leu Ala Ala Thr Leu Ala Asp Leu Asp Val Asn
35 40 45

Val Gln Val Leu Glu Asp Gln Phe Leu Gln Asp Lys
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<400> 25

Sequence listing.txt

Lys Gln Ala Thr Ala Arg Ala Lys Glu Asp Ile Asp Lys Ala Leu Gln
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Ala Leu Asp Asp His Leu Leu Thr Arg Thr Tyr Leu Val Gly Glu Arg
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Ile Thr Leu Ala Asp Ile Val Val Thr Cys Thr Leu Leu His Leu Tyr
35 40 45

Gln His Val Leu Asp Glu Ala Phe Arg Lys Ser Tyr
50 55 60

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Asp Phe Leu Val Gly Pro His Ile Ser Leu Ala Asp Leu Val Ala Ile
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Thr Glu Leu Met His Pro Val Gly Gly Gly Cys Pro Val Phe Glu Gly
20 25 30

His Pro Arg Leu Ala Ala Trp Tyr Gln Arg Val Glu Ala Ala Val Gly
35 40 45

Lys Asp Leu Phe Arg Glu Ala His Glu Val Ile Leu
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<213> Rattus norvegicus

<400> 27

Asp Phe Leu Val Gly Pro His Ile Ser Leu Ala Asp Val Val Ala Ile
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Thr Glu Leu Met His Pro Val Gly Gly Gly Cys Pro Val Phe Glu Gly
20 25 30

Arg Pro Arg Leu Ala Ala Trp Tyr Arg Arg Val Glu Ala Ala Val Gly
35 40 45

Lys Asp Leu Phe Leu Glu Ala His Glu Val Ile Leu
50 55 60

Sequence listing.txt

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Lys Ala Val Ile Gly Asp Phe Lys Leu Cys Glu Lys Ala Gly Glu Phe
 20 25 30

Asp Pro Xaa Xaa Xaa Lys Lys Tyr Ala Glu Phe Gln Ala Ala Ile Gly
 35 40 45

Ser Gly Glu Lys Lys Lys Thr Glu Lys Ala Pro Lys
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Met Pro Arg Val Leu Thr Met Ile Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Sequence Listing.txt

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Met Pro Arg Val Leu Thr Met Ile Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Ala Val Lys Ala Lys Pro Glu Lys Lys Glu Val Pro Lys Lys Glu Gln
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Glu Glu Pro Ala Asp Ala Ala Glu Glu Ala Leu Ala Ala Glu Pro Lys
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Ser Lys Asp Pro Phe Asp Glu Met Pro Lys Gly Thr Phe Asn Met Asp
 35 40 45

Asp Phe Lys Arg Phe Tyr Ser Asn Asn Glu Glu Thr
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Sequence listing.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Lys Ser Ile Pro Tyr Phe Trp Glu Lys Phe Asp Lys Glu Asn Tyr Ser
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Ile Trp Tyr Ser Glu Tyr Lys Tyr Gln Asp Glu Leu Ala Lys Val Tyr
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Met Ser Cys Asn Leu Ile Thr Gly Met Phe Gln Arg Ile Glu Lys Met
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Arg Lys Gln Ala Phe Ala Ser Val Cys Val Phe Gly
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Sequence listing.txt

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 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

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 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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Sequence listing.txt

<213> Artemia salina

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Glu Asp Asn Asp Ser Ser Ile Ser Gly Ile Trp Val Trp Arg Gly Gln
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Asp Leu Ala Phe Lys Leu Ser Pro Asp Trp Gln Ile Asp Tyr Glu Ser
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Tyr Asp Trp Lys Lys Leu Asp Pro Asp Ala Gln Glu Thr Lys Asp Leu
35 40 45

Val Thr Gln Tyr Phe Thr Trp Thr Gly Thr Asp Lys
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Gln Gly Arg Lys Phe Asn Gln Gly Lys Ile Phe Lys
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Sequence listing.txt

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Tyr Lys Xaa Xaa Asn Glu Leu Asn Gly Gln Leu Gln Val Leu Asp Arg
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Val Leu Val Lys Lys Thr Tyr Leu Val Gly Glu Arg Leu Ser Leu Ala
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Asp Val Ser Val Ala Leu Asp Leu Leu Pro Ala Phe
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Leu Ser Ser Cys Asp Ser Phe Thr Ser Thr Ile Asn Glu Leu Asn His
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Cys Leu Ser Leu Arg Thr Tyr Leu Val Gly Asn Ser Leu Ser Leu Ala
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Asp Leu Cys Val Trp Ala Thr Leu Lys Gly Asn Ala
 50 55 60

Sequence listing.txt

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Arg Trp Phe Arg Thr Val Val Asn Gln Pro Ala Val Lys Glu Val Xaa
 20 25 30

Xaa Leu Gly Glu Val Ser Leu Ala Ser Ser Xaa Val Ala Xaa Gln Phe
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Asn Gln Xaa Xaa Ala Lys Phe Thr Glu Leu Ser Xaa
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Ala Trp Gln Glu Gln Leu Lys Gln Lys Lys Ala Pro Val His Val Lys
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Arg Trp Phe Gly Phe Leu Glu Ala Gln Gln Ala Phe Gln Ser Val Gly
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Sequence listing.txt

Thr Lys Trp Asp Val Ser Thr Thr Lys Ala Arg Val Ala Pro Glu Lys
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Lys Gln Asp Val Gly Lys Phe Val Glu Leu Pro Gly
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<220>
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<220>
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 <222> (59)..(60)
 <223> Xaa can be any naturally occurring amino acid

<400> 45

Xaa Xaa Xaa Ala Lys Val Ala Lys Ser Ala Pro Lys Ala Glu Lys Pro
 1 5 10 15

Lys Lys Glu Ala Lys Pro Ala Ala Ala Xaa Xaa Ala Gln Pro Xaa
 20 25 30

Xaa Xaa Xaa Xaa Glu Xaa Xaa Xaa Xaa Xaa Xaa Asp Asp Xaa Glu
 35 40 45

Sequence listing.txt

Pro Lys Glu Glu Lys Ser Xaa Lys Asp Pro Xaa Xaa
50 55 60

<210> 46
<211> 60
<212> PRT
<213> Homo sapien
<400> 46

Ala Glu Met Gly Lys Val Thr Val Arg Phe Pro Pro Glu Ala Ser Gly
1 5 10 15

Tyr Leu His Ile Gly His Ala Lys Ala Ala Leu Leu Asn Gln His Tyr
20 25 30

Gln Val Asn Phe Lys Gly Lys Leu Ile Met Arg Phe Asp Asp Thr Asn
35 40 45

Pro Glu Lys Glu Lys Glu Asp Phe Glu Lys Val Ile
50 55 60

<210> 47
<211> 60
<212> PRT
<213> Oryctolagus cuniculus
<400> 47

Met Ala Ala Gly Thr Leu Tyr Thr Tyr Pro Glu Asn Trp Arg Ala Phe
1 5 10 15

Lys Ala Leu Ile Ala Ala Gln Tyr Ser Gly Ala Gln Val Arg Val Leu
20 25 30

Ser Ala Pro Pro His Phe His Phe Gly Gln Thr Asn Arg Thr Pro Glu
35 40 45

Phe Leu Arg Lys Phe Pro Ala Gly Lys Val Pro Ala
50 55 60

<210> 48
<211> 60
<212> PRT
<213> Zea mays

<220>
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Sequence listing.txt

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<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 48

Xaa Ala Thr Pro Ala Val Lys Val Tyr Gly Trp Ala Ile Ser Pro Phe
1          5          10          15

Val Ser Arg Ala Leu Leu Ala Leu Glu Glu Ala Gly Val Asp Tyr Glu
          20          25          30

Leu Val Pro Met Ser Arg Gln Asp Gly Asp Xaa His Arg Arg Pro Glu
          35          40          45

His Leu Ala Arg Asn Pro Phe Gly Lys Val Pro Val
          50          55          60

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<210> 49
<211> 60
<212> PRT
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<220>
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<223> Xaa can be any naturally occurring amino acid

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<400> 49

Phe Glu Gly Asp Asp Gly Phe Cys Val Phe Glu Ser Asn Ala Ile Ala
1          5          10          15

Tyr Tyr Val Ser Xaa Xaa Xaa Xaa Asn Glu Glu Leu Arg Gly Ser Thr
          20          25          30

Pro Glu Ala Ala Ala Gln Val Val Gln Trp Val Ser Phe Ala Asp Ser
          35          40          45

Asp Ile Val Pro Pro Ala Ser Thr Xaa Xaa Xaa Xaa
          50          55          60

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<210> 50
<211> 60
<212> PRT
<213> Zea mays

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Sequence listing.txt

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<220>
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<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 50
Leu Glu Xaa Asp Gly Asp Leu Thr Leu Phe Glu Ser Arg Ala Ile Ala
1          5          10          15

Arg His Val Leu Arg Lys His Lys Pro Glu Leu Leu Gly Gly Gly Arg
          20          25          30

Leu Glu Gln Thr Ala Met Val Asp Val Trp Leu Glu Val Glu Ala His
          35          40          45

Gln Leu Ser Pro Pro Ala Ile Ala Ile Val Val Glu
          50          55          60

<210> 51
<211> 60
<212> PRT
<213> Oryctolagus cuniculus

<400> 51
Trp Val Phe Pro Thr Leu Gly Ile Met His His Asn Lys Gln Ala Thr
1          5          10          15

Glu Asn Ala Lys Glu Glu Val Lys Arg Ile Leu Gly Leu Leu Asp Ala
          20          25          30

His Leu Lys Thr Arg Thr Phe Leu Val Gly Glu Arg Val Thr Leu Ala
          35          40          45

Asp Ile Thr Val Val Cys Thr Leu Leu Trp Leu Tyr
          50          55          60

<210> 52
<211> 60
<212> PRT
<213> Zea mays

<220>
<221> misc_feature
<222> (54)..(54)
<223> Xaa can be any naturally occurring amino acid

<400> 52
Cys Val Phe Ala Pro Phe Leu Gly Arg Glu Arg Asn Gln Ala Val Val
1          5          10          15

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Sequence listing.txt

Asp Glu Asn Val Glu Lys Leu Lys Lys Val Leu Glu Val Tyr Glu Ala
20 25 30

Arg Leu Ala Thr Cys Thr Tyr Leu Ala Gly Asp Phe Leu Ser Leu Ala
35 40 45

Asp Leu Ser Pro Phe Xaa Thr Ile Met His Cys Leu
50 55 60

<210> 53
<211> 60
<212> PRT
<213> Oryctolagus cuniculus

<400> 53

Lys Gln Val Leu Glu Pro Ser Phe Arg Gln Ala Phe Pro Asn Thr Asn
1 5 10 15

Arg Trp Phe Leu Thr Cys Ile Asn Gln Pro Gln Phe Arg Ala Val Leu
20 25 30

Gly Glu Val Lys Leu Cys Glu Lys Met Ala Gln Phe Asp Ala Lys Lys
35 40 45

Phe Ala Glu Ser Gln Pro Lys Lys Asp Thr Pro Arg
50 55 60

<210> 54
<211> 60
<212> PRT
<213> Zea mays

<220>
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<223> xaa can be any naturally occurring amino acid

<220>
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<222> (33)..(39)
<223> xaa can be any naturally occurring amino acid

<220>
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<223> xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (59)..(60)
<223> xaa can be any naturally occurring amino acid

<400> 54

Sequence listing.txt

Met Ala Thr Glu Tyr Ala Ala Leu Val His Ala Leu Pro His Val Ser
1 5 10 15

Ala Trp Trp Gln Gly Leu Ala Ala Arg Pro Xaa Xaa Xaa Ala Ala Asn
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Val Ala Gln Phe Xaa Xaa Met Pro
35 40 45

Val Gly Ala Gly Ala Pro Lys Glu Gln Glu Xaa Xaa
50 55 60

<210> 55
<211> 30
<212> PRT
<213> Caenorhabditis elegans

<400> 55

Ile Phe Asp Asn Thr Asn Asp Leu Val Ala Ser Leu Leu Gly Ile Ser
1 5 10 15

Ser Ile Thr Val Tyr Arg Lys Arg Lys Arg Ile Gly Glu Glu
20 25 30

<210> 56
<211> 30
<212> PRT
<213> Caenorhabditis elegans

<400> 56

Tyr Leu Ser Gly Ser Thr Arg Ala Lys Leu Ala Glu Ser Leu Gly Leu
1 5 10 15

Ser Asp Asn Gln Val Lys Val Trp Phe Gln Asn Arg Arg Thr
20 25 30

<210> 57
<211> 30
<212> PRT
<213> Caenorhabditis elegans

<400> 57

Ile Ser Arg Ser Thr Ala Lys Glu Val Ala Thr Ala Arg Gly Ile Ser
1 5 10 15

Glu Gly Thr Val Tyr Ser Tyr Leu Ala Met Ala Val Glu Lys
20 25 30

<210> 58
<211> 30

Sequence listing.txt

<212> PRT

<213> Caenorhabditis elegans

<400> 58

Leu Ser Ala Tyr Thr Ile Ser Asp Leu Ala Lys His Phe Asn Val Ser
1 5 10 15

Lys Ile Glu Ile Leu Lys Ile Asp Ile Glu Gly Ala Glu Leu
20 25 30

<210> 59

<211> 30

<212> PRT

<213> Caenorhabditis elegans

<400> 59

Asn Glu Val Leu Asn Leu Asn Glu Val Ala Lys Glu Leu Asn Ile Ser
1 5 10 15

Lys Arg Arg Val Tyr Asp Val Ile Asn Val Leu Glu Gly Leu
20 25 30